

ASCLD/LAB-International

STATEMENT OF QUALIFICATIONS

Name	Samuel I. Blittman	Date	April 1, 2013
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Laboratory	Alaska Scientific Crime Detection Laboratory - Anchorage, Alaska
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Job Title	Forensic Scientist III - Technical Lead Chemist
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Indicate all disciplines in which you do casework:

<input checked="" type="checkbox"/>	Drug Chemistry	<input type="checkbox"/>	Toxicology
<input type="checkbox"/>	Firearms/Toolmarks	<input type="checkbox"/>	Biology
<input checked="" type="checkbox"/>	Trace Evidence	<input type="checkbox"/>	Questioned Documents
<input type="checkbox"/>	Latent Prints	<input type="checkbox"/>	Crime Scene
<input type="checkbox"/>	Digital & Multimedia Evidence		

List all category(ies) of testing in which you do casework:

Fire Debris and Controlled Substances

Breath Alcohol Calibration Categories

<input type="checkbox"/>	Toxicology - Breath Alcohol Measuring Instruments (The work of the laboratory MUST include calibration certificates- do not check the box if work is limited to breath/alcohol testing)
<input type="checkbox"/>	Toxicology - Breath Alcohol Calibration Reference Material

Education: List all higher academic institutions attended (list high school only if no college degree has been attained)

Institution	Dates Attended	Major	Degree Completed
C.W. Post College (LIU)	1971 -1973	Chemistry (ACS Certified)	Bachelor of Science
Nassau Community College	1969 -1971	Chemistry	Associate of Science

Other Training: List continuing education, workshops, in-service and other formal training received. Please include the course title, source and date of the training.

<ul style="list-style-type: none"> • Hazardous Waste Operations and Emergency Response (HAZWOPER) • Hazard Communication (HAZCOM) • Hazardous Materials Incident Response Operations (HAZMAT) (EPA) • Fire Investigation Techniques (NFPA CFI Trainer) • Fire Debris Analysis (ATF, NFSTC, CCI) • Mass Spectrometer System Operator (Agilent/Hewlett-Packard/Varian) • TEA and EGIS Explosive Detector System Operator (Thermedics) • Energy Dispersive X-Ray Spectrometer System Operator (EDAX) • Mass Spectrum Interpretation – Forensic Applications (ASMS, CAC, CCI) • Fire and Explosion Debris Analysis and Scene Investigation (TWGFEX) • Fire and Explosion Investigations (IAAI, CCAI) • Quality Assurance/Quality Control in the Analytical Testing Laboratory (ACS) • National Response Team Training (ATF) • Arson and Explosives Accreditation Workshops (ATF) • Forensic Microscopy (McCrone) • Advanced Courtroom Procedures and Witness Workshop (ATF, CAC)
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- Ethics in Forensic Science (ATF, Northern California Forensic Identification)
- Instructor Training (ATF)
- Mass Spectrometry, Gas Chromatography & Columns Seminars (Agilent, Fisons, Varian, J & W)

Courtroom Experience: List the discipline/category(ies) of testing in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

- 1998 CA Superior Court - Alameda County - Oakland, CA
- 1998 WA Superior Court - Snohomish County - Everett, WA
- 1997 U.S. District Court - Northern District - Dallas, TX
- 1996 NM District Court - Bernalillo County - Albuquerque, NM
- 1995 UT District Court - Salt Lake City County - Salt Lake City, UT
- 1995 AZ Superior Court - Pinal County - Florence, AZ
- 1992 CA Superior Court - Santa Clara County - Palo Alto, CA

Professional Affiliations: List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

- American Academy of Forensic Sciences - Criminalistics
- California Association of Criminalists
- ASTM International - Criminalistics

Employment History: List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of principal duties and tenure in each position.

Job Title	Forensic Scientist III - Technical Lead Chemist	Tenure	2012 - Present
Employer	Alaska Scientific Crime Detection Laboratory - Anchorage, Alaska		
Provide a brief description of principal duties:			
Analyze fire debris for chemical accelerants in Arson cases using ASTM procedures, and controlled substances regulated by government regulations in an ASCLD/LAB accredited laboratory			

Job Title	Consulting Expert Witness and Forensic Chemist	Tenure	2006-2011
Employer	Arson Laboratory Consultants - Antioch, California		
Provide a brief description of principal duties:			
Evaluated arson reports that may have contained erroneous conclusions and protocols			

Job Title	Senior Forensic Chemist	Tenure	1991-2006
Employer	U.S. Bureau of Alcohol, Tobacco, Firearms and Explosives - Justice Department - Walnut Creek, California		
Provide a brief description of principal duties:			
Analyzed thousands of fire debris exhibits for chemical accelerants in Arson cases using ASTM procedures in an ASCLD/LAB accredited laboratory			

Job Title	Senior Alcohol Chemist	Tenure	1979-1990
Employer	U.S. Bureau of Alcohol, Tobacco and Firearms - Treasury Department - Walnut Creek, California		
Provide a brief description of principal duties:			
Analyzed thousands of alcoholic beverages (beer, wine, whiskey), and non-beverage alcoholic products (candies, cakes, solvents, flavor concentrates), for foreign debris and labeling to safeguard consumer protection, and for federal regulated chemicals using AOAC procedures			

Job Title		Tenure	
Employer			
Provide a brief description of principal duties:			

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist.
(Use additional sheets if necessary.)

PUBLICATIONS

- “Oil Analysis by High Temperature Fused Silica Capillary Columns with Ion-Trap GC/MS”, ATF
- “Spontaneous Ignition of a Paint Filter”, International Association of Forensic Sciences, ATF
- “Evaluation of Northern, Summer, and Winter Gasolines by GC/MS”, ATF
- “Fire Debris Analysis of Fused Silica Capillary Columns with GC/FID and GC/MS”, ATF
- “Fire Debris Analysis Utilizing Activated Charcoal with a Porous Bag”, ATF
- “Ethyl Carbamate Extraction and Analysis of Alcoholic Beverages with GC/TEA and GC/MS”, ATF
- “Diethylene Glycol Analysis of Wine by GC/FID”, ATF
- “Fusel Oils Analysis of Wine by Capillary Column GC/FID”, ATF
- “Ethanol Analysis of Beer by an Automated Density Meter”, ATF
- “Sulfur Dioxide Analysis of Fruit Cake by Aeration –Oxidation”, ATF
- “Acetic Acid Analysis of Wine with GC/FID on a Packed Glass Column”, ATF

RESEARCH

- Evaluated Error Rates of national Ignitable Liquid Proficiency Tests
- Assessed Contamination of Evidence-Collection Cans
- Assessed Contamination of polymer Evidence-Collection Bags
- Instituted and Modified Target Compound analysis for GC/MS fire debris data
- Collected and Analyzed mass spectrometry data from:
 - perspiration on typical clothing from suspects
 - vegetable oil misidentified in fire debris
 - typical pyrolyzed exemplars of wood, carpet, and padding in fire debris
 - unusual chemical accelerants at various stages of evaporation
 - spontaneous combustion materials
- Evaluated the Ethanol Determination of Wine by the Dichromate Method
- Assessed Fruit Brandies for Cyanide Concentration
- Error Analysis of Carbon Dioxide Determination of Carbonated Wines

TEACHING

- “Fire Debris Collection Requirements” for local fire and crime scene investigators, prosecutors, and at Alaska Association of Fire & Arson Investigators Conference (AAFAI)
- “Using GC/MS for Arson Analysis” at California Criminalistics Institute (CCI)
- “Evidence Collection and Contamination” at ATF Special Agent Training
- “Lab Analysis of Alcohol Containing Products” at Federal Law Enforcement Training Center (FLETC)
- “What the ATF Alcohol Laboratory Does” at ATF Regulatory Inspector Seminars